

U. S. GEOLOGICAL SURVEY
 ANNUAL PEAK FLOW FREQUENCY ANALYSIS
 Following Bulletin 17-B Guidelines
 Program peakfq
 (Version 4.0, December, 2000)

Station - 05361420 DOUGLAS CREEK NEAR PRENTICE, WI
 2002 MAR 13 09:02:50

I N P U T D A T A S U M M A R Y

Number of peaks in record	=	31
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	31
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.214
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	0.0
User supplied high outlier threshold	=	--
User supplied low outlier criterion	=	--
Plotting position parameter	=	0.00

***** NOTICE -- Preliminary machine computations. *****
 ***** User responsible for assessment and interpretation. *****

WCF134I-NO SYSTEMATIC PEAKS WERE BELOW GAGE BASE.	0.0
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.	173.8
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.	1737.6

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE		LOGARITHMIC		
	DISCHARGE	EXCEEDANCE PROBABILITY	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	0.0	1.0000	2.7401	0.1940	0.338
BULL.17B ESTIMATE	0.0	1.0000	2.7401	0.1940	0.125

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY' ESTIMATE	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
				LOWER	UPPER
0.9950	183.3	200.4	168.1	131.7	230.1
0.9900	202.6	217.5	189.2	149.1	250.6
0.9500	267.9	275.9	259.1	210.1	319.3
0.9000	312.0	315.9	305.5	252.6	365.4
0.8000	376.5	375.4	372.4	315.4	433.6
0.5000	544.5	536.0	544.5	475.5	623.0
0.2000	798.1	793.1	807.6	693.2	951.8
0.1000	979.8	987.7	1003.0	835.6	1213.0
0.0400	1224.0	1262.0	1279.0	1017.0	1590.0
0.0200	1417.0	1488.0	1509.0	1154.0	1903.0
0.0100	1618.0	1733.0	1761.0	1293.0	2244.0
0.0050	1830.0	2000.0	2041.0	1436.0	2614.0
0.0020	2128.0	2389.0	2463.0	1631.0	3155.0
0.6667	450.2	(1.50-year flood)			
0.4292	589.4	(2.33-year flood)			

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I N P U T D A T A L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1970	315.0		1986	745.0	
1971	1000.0		1987	555.0	
1972	960.0		1988	510.0	
1973	665.0		1989	275.0	
1974	325.0		1990	620.0	
1975	280.0		1991	505.0	
1976	625.0		1992	465.0	
1977	280.0		1993	825.0	
1978	480.0		1994	1620.0	
1979	470.0		1995	492.0	
1980	420.0		1996	641.0	
1981	1200.0		1997	902.0	
1982	720.0		1998	488.0	
1983	640.0		1999	331.0	
1984	380.0		2000	352.0	
1985	752.0				

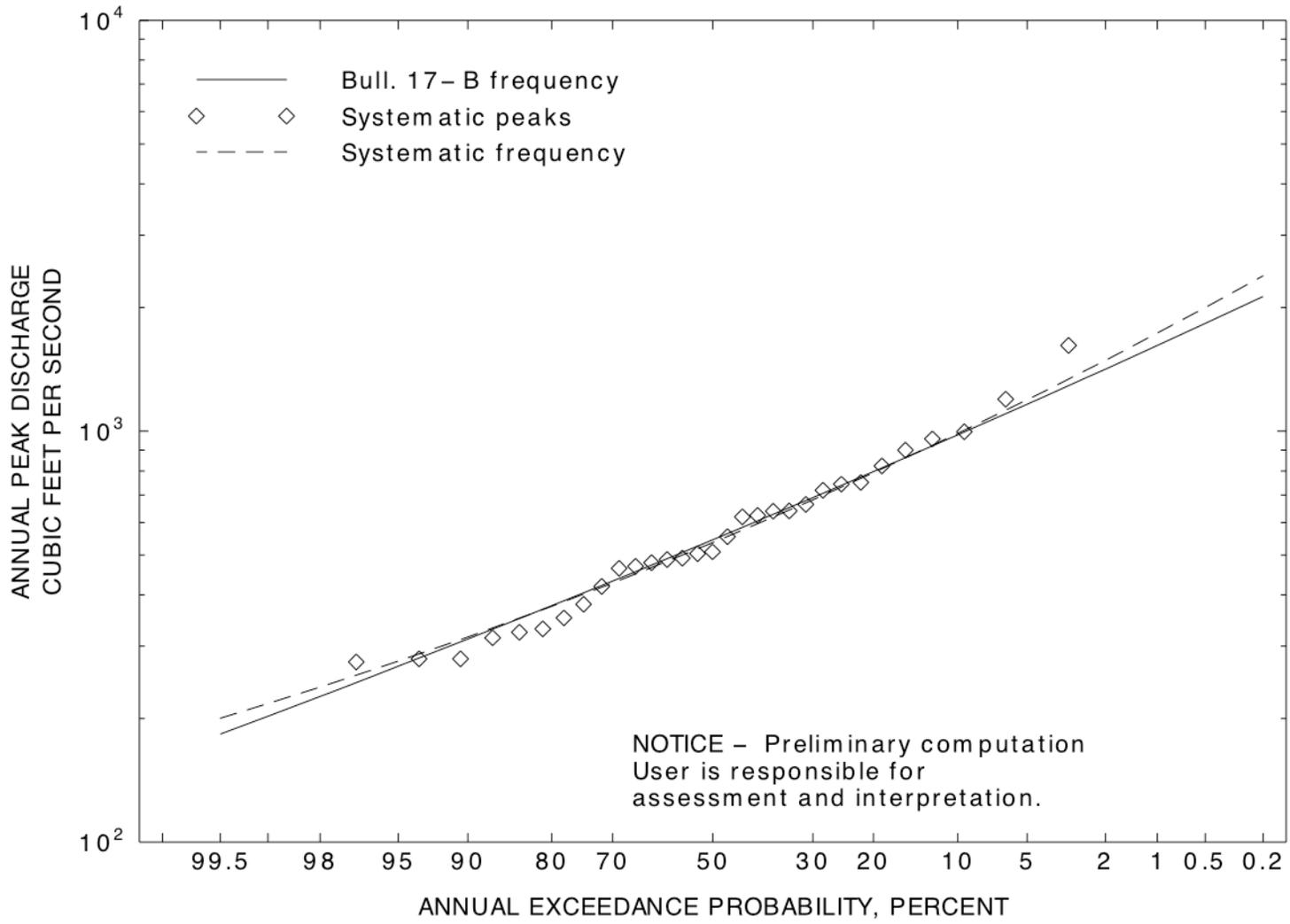
Explanation of peak discharge qualification codes

PEAKFQ CODE	WATSTORE CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1994	1620.0	0.0312	0.0312
1981	1200.0	0.0625	0.0625
1971	1000.0	0.0938	0.0938
1972	960.0	0.1250	0.1250
1997	902.0	0.1562	0.1562
1993	825.0	0.1875	0.1875
1985	752.0	0.2188	0.2188
1986	745.0	0.2500	0.2500
1982	720.0	0.2812	0.2812
1973	665.0	0.3125	0.3125
1996	641.0	0.3438	0.3438
1983	640.0	0.3750	0.3750
1976	625.0	0.4062	0.4062
1990	620.0	0.4375	0.4375
1987	555.0	0.4688	0.4688
1988	510.0	0.5000	0.5000
1991	505.0	0.5312	0.5312
1995	492.0	0.5625	0.5625
1998	488.0	0.5938	0.5938
1978	480.0	0.6250	0.6250
1979	470.0	0.6562	0.6562
1992	465.0	0.6875	0.6875
1980	420.0	0.7188	0.7188
1984	380.0	0.7500	0.7500
2000	352.0	0.7812	0.7812
1999	331.0	0.8125	0.8125
1974	325.0	0.8438	0.8438
1970	315.0	0.8750	0.8750
1975	280.0	0.9062	0.9062
1977	280.0	0.9375	0.9375
1989	275.0	0.9688	0.9688



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